, COMMON COUNCIL	FEBRUARY 3, 1919. 221
Council Chamber, Ann Arbor, Mich., Feb. 3, 1919. Regular session.	Frank Kapp, salary 33.69
Meeting called to order by the pres-	Fire fund total salaries, half month, January
ident. Present: Ald. Sugden, Huss,	Police Fund.
Mayer, Henderson, Prochnow, Markey,	Thos. O'Brien, salary \$ 66.66
Donnelly, Hauser, Spathelf, Freeman,	Wm. Aprill, salary
MacGregor, Lutz, Pres. Reichert, 13.	Ed. Blumbardt, salary 51.23
Absent: Ald, Heusel, Sink, 2. Minutes	Emanuel Sodt, salary 51.23
of previous meeting approved.	Marlend Howard, salary
Notice of suit by Lorenzo D. Thomas	Robert Clark, salary 51.23
received and referred to City Attorney.	Henry Harden, salary 51.23
Communication from Mr. F. G. Bar-	Fred Sodt, salary 51.25
nard, relative to action taken by mu-	Joseph Gast, salary
nicipalities in the matter of petition	Frank Marz, salary 47.55 Chas. Splitt, salary 34.87
filed by the Michigan State Telephone	chas. Spirit, safaty 54.01
Company with the Michigan Railroad	Police fund total salaries, half month,
Commission, received and referred to	January\$606.47
City Attorney.	Poor Fund.
Petition of Ernst M. Wurster, et al.,	John H. Shalford, salary \$ 35.00
for grading and paving on N. Fourth	Cemetery Fund,
ave., between Ann and Kingsley sts.,	David Staebler, salary \$ 70.00
and on Detroit st. between Ann and	Park Fund. Ray E. Bassett, salary\$125.00
	Water Works Fund.
Catherine sts, and on Catherine st. be-	Geo. S. Vandawarker, salary\$166.66
tween Main st. and Fifth ave., received	R. Sjokes, salary 166.66
and referred to City Engineer.	Dr. H. Emerson, salary 50 00
Representatives of the Michigan	A. W. Cochran, salary 10.00
Central Railroad requested Council to	Geo Mann, salary
appoint a committee to meet with of-	John Lindenschmitt, salary20.00Wirt Cornwell, salary20.00
ficials of the railroad relative to re-	Trace Comments and Transfer 20.00
moval of stock yards, and the matter	Total monthly salaries\$453.32
was referred to Railway committee.	Harry Willsher, salary \$45.00
Committee Reports.	Leslie Bush, salary 45.00
Finance Report.	Robert Rowe, salary 42.50
Finance Report. Contingent Fund.	Robert Rowe, salary 42.50 Harry Warren, salary 37.50
Finance Report. Contingent Fund. I. G. Reynolds, salary and clerk hire.\$166.66	Robert Rowe, salary 42.50 Harry Warren, salary 37.50 Henry Linde, salary 45.00
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Hutzel & Co., engine house repairs. 502.97	James Mason, labor 34.20
	W. H. Romig, labor
Total supplies, etc\$1,638.60	Adam Schlecht, labor 16.34 John Wendland, labor 14.88
Contingent fund total, including salaries	Geo. Zeifle, labor 8.00
Fire Fund	W. J. Grayer, team 15.56
The Detroit Edison Co., light\$ 5.40	Fred G. Hanselman, team 56.00 John E. Herrst, team 38.89
Henry Nevroth, substitute 12.68 Washtenaw Gas Co., light 2 mo 18.63	John Miller, team 10.89
R. G. McKenzie, services 24.00	Carl Rehberg, team 23.33
St. Joseph's Sanitarium, board and	Claud Young, team 24.11
care	Total labor
White Swan Laundry Co., laundry 15.78 Ottmar H. Lutz, repairs 1.50	H. D. Edwards & Co., supplies\$ 5.03
American-LaFrance Fire Engine Co.,	Elgin Street Sweeper Co., supplies 3.06
supplies 34.71	Water Works Dept., water
Jno. C. Fischer Co., supplies 25.87	Wm. J. Clancy, street sprinkling 7650 The Cadillac Garage Co., supplies 1.50
The Newton & Haggerty Ladder Co., supplies	Jno. C. Fischer Co., supplies 1.00
Schumacher Hardware Co., supplies 15.05	Albert Lutz, supplies 4.75
John A. Tice, supplies	Wm. H. L. Rohde, supplies 3.58 Schumacher Hardware Co., supplies 4.63
Total supplies, etc\$199.87	Geo. Wahr, supplies
Fire fund total, including salaries, \$1,153.67	Hertler Bros., horse feed 4.80
Police Fund	Michael F. Finkbeiner, repairs 22.50 Hutzel & Co., repairs 2.55
Mich. State Tel. Co., tolls\$ 7.50	Hutzel & Co., repairs
Mrs. Joseph Gagel, services 5.00 Standard Oil Co., coupon book 10.00	Henry S. Platt, auto repairs 31.65
City Garage, supplies 3.00	A. J. Paul, express, etc., paid 7.60
E. G. Hoag, supplies 2.40	Total supplies, etc\$210.26
Schumacher Hardware Co., supplies 10.20 Independent Taxi & Transfer Line,	Street fund total\$478.43
taxi service	Recapitulation
Henry S. Platt, auto repairs 4.70	Contingent fund\$ 3,203.88
A. C. Marquardt Garage, auto repairs 21.03 Stanger Furniture Co., auto repairs 6.40	Fire fund
Stanger Furniture Co., auto repairs 6.40 Thos. O'Brien, supplies paid 50	Poor fund 87.24
Thos. O Biren, supplies paratition iso	Cemetery fund 70.00
	Cemetery rand
Total supplies, etc\$ 74.58	Park fund
Police fund total, including salaries, \$681.05	Park fund
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old	Park fund
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Park fund 125.00 Water Works fund 1,953.88 Special Water Works fund 6,677.90 Street fund 478.43
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Park fund 125.00 Water Works fund 1,953.88 Special Water Works fund 6,677.90 Street fund 478.43 Total City funds \$14,431.05
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Park fund 125.00 Water Works fund 1,953.88 Special Water Works fund 6,677.90 Street fund 478.43 Total City funds \$14,431.05 Ann Arbor, Mich., Feb. 3, 1919. To the Finance committee of the Common
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Special Water Works fund 6,677.90 Street fund 478.43 Total City funds \$\frac{14,431.05}{Ann Arbor, Mich., Feb. 3, 1919.} To the Finance committee of the Common Council: Gentlemen—I have examined the
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Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Sreciai Water Works fund 6,677.90 Street fund 478.43 Total City funds \$\frac{14,431.05}{Ann Arbor, Mich., Feb. 3, 1919.} To the Finance committee of the Common Council: Gentlemen—I have examined the foregoing accounts against the city of Ann Arbor, and I hereby certify that they are correct to the best of my knowledge. ISAAC G. REYNOLDS, City Clerk. To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants for salaries were drawn Feb. 1, 1919. We
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Sreciai Water Works fund 6,677.90 Street fund 478.43 Total City funds 114,431.05
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Special Water Works fund 6,677.90 Street fund 478.43 Total City funds \$\frac{14,431.05}{Ann Arbor, Mich., Feb. 3, 1919.} To the Finance committee of the Common Council: Gentlemen—I have examined the foregoing accounts against the city of Ann Arbor, and I hereby certify that they are correct to the best of my knowledge. ISAAC G. REYNOLDS, City Clerk. To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants for salaries were drawn Feb. 1, 1919. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts.
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Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Special Water Works fund 6,677.90 Street fund 478.43 Total City funds 1478.43 Total City funds 1478.43 To the Finance committee of the Common Council: Gentlemen—I have examined the foregoing accounts against the city of Ann Arbor, and I hereby certify that they are correct to the best of my knowledge. ISAAC G. REYNOLDS, City Clerk. To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants for salaries were drawn Feb. 1, 1919. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts. GFO LUTZ, JOHN MACGREGOR, O. R. MAYER, Finance Committee. Ald. Lutz moved the adoption of re-
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Srecial Water Works fund 6,677.90 Street fund 478.43 Total City funds 1478.43 Total City funds 1478.43 To the Finance committee of the Common Council: Gentlemen—I have examined the foregoing accounts against the city of Ann Arbor, and I hereby certify that they are correct to the best of my knowledge. ISAAC G. REYNOLDS, City Clerk. To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants for salaries were drawn Feb. 1, 1919. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts. GFO. LUTZ, JOHN MAC GREGOR, O. R. MAYER, Finance Committee. Ald. Lutz moved the adoption of report, which was adopted by the follow-
Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Srecial Water Works fund 6,677.90 Street fund 478.43 Total City funds 1,431.05
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Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Sreciai Water Works fund 6,677.90 Street fund 478.43 Total City funds 1478.43 Total City funds 1478.43 To the Finance committee of the Common Council: Gentlemen—I have examined the foregoing accounts against the city of Ann Arbor, and I hereby certify that they are correct to the best of my knowledge. ISAAC G. REYNOLDS, City Clerk. To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants for salaries were drawn Feb. 1, 1919. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts. GFO. LUTZ, JOHN MACGREGOR, O. R. MAYER, Finance Committee. Ald. Lutz moved the adoption of report, which was adopted by the following vote: Yeas, Ald. Sugden. Huss, Mayer, Henderson, Prochnow, Markey, Donnelly, Hauser, Spathelf, Freeman, MacGregor, Lutz, Pres. Reichert, 13.
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Police fund total, including sataries, \$681.05 Poor Fund Mrs. Mabel R. Lloyd, treas. Old Ladies' Home	Water Works fund 1,953.88 Srecial Water Works fund 6,677.90 Street fund 478.43 Total City funds 1478.43 Total City funds 1478.43 To the Finance committee of the Common Council: Gentlemen—I have examined the foregoing accounts against the city of Ann Arbor, and I hereby certify that they are correct to the best of my knowledge. ISAAC G. REYNOLDS, City Clerk. To the Honorable, the Common Council: Gentlemen—Your Finance committee has reviewed the foregoing report. Warrants for salaries were drawn Feb. 1, 1919. We recommend that same be approved and that warrants be ordered drawn for the foregoing accounts. GFO. LUTZ, JOHN MACGREGOR, O. R. MAYER, Finance Committee. Ald. Lutz moved the adoption of report, which was adopted by the following vote: Yeas, Ald. Sugden. Huss, Mayer, Henderson. Prochnow, Markey, Donnelly, Hauser, Spathelf, Freeman, MacGregor, Lutz, Pres. Reichert, 13. Nays, none. Water Committee Report.
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Steere Farm, and the proceeds of such sale to be credited to the Special Waters Works fund.

Respectfully submitted, Wm. L. Henderson, Geo. Lutz, O. R. Mayer, Water Committee.

Ald. Henderson moved the adoption of report, which was adopted by the following vote: Yeas, Ald. Sugden, Huss, Mayer, Henderson, Prochnow, Markey, Donnelly, Hauser, Spathelf, Freeman, MacGregor, Lutz, Reichert, 13. Nays, none.

Special Committee Report.

Ald. Lutz presented the following

To the Honorable, the Common Gentlemen-Your commit-Council: tee, to whom was referred, with power to act, the matter of providing additional booths for the Seventh ward and making such changes and repairs at the polling places as they deem necessary, respectfully report that the Board of Education has given permission to the City to use a room in the basement of the Eberbach school for the purpose of holding elections and registrations in the second precinct of said ward; and your committee advertised for proposals for finishing said room for such purpose and bids were received Feb. 1, 1919, as follows: L. F. Zells, \$319.00; E. R. Schaefer, \$299.70; Thos. Hanseman, \$298.00. Mr. Thos. Hanselman, being the lowest bidder, was awarded the contract.

Respectfully submitted, Geo. Lutz, Isaac G. Reynolds, committee.

Officers' Reports. Annual Report of Board of Public Works.

January 22, 1919.

To the Board of Public Works, Ann Arbor, Michigan:

Sirs-I submit the following report of work done, under my direction, in your Engineer's Department, during the year ending December 31, 1918. Respectfully submitted, Geo. H. San-

denburgh, City Engineer.

PAVING.

Alley in Block 2 S,, R. 3 E.: plans and specifications for this pavement were submitted to you in October, 1917. Due to the lateness of the season, the work was postponed until the summer of 1918. This is a two concrete pavement, seven course inches thick. The base is five inches thick of one-two and one-half-five The wearing course is two concrete. inches thick of one-two cement mor-The total cost of this pavement was \$839.29. distributed as follows:

Engineering	and	superintend	_
ence			. \$ 54.26
Materials ar	id suj	oplies	. 785.03

Total\$839.29

Unit cost for removing cobble stone pavement, 15c per sq. yd.

Excavation, 78c per sq. yd.

Concrete pavement, \$1.59 per sq. yd. Only one bid was received for this This bid was considerable higher than the es imate. On recommendation of the Board, the bid was rejected and the work ordered done under the direction of the Street Commissioner and Engineer. The construction was under the immediate direction of the Street Commissioner.

Resurfacing North Division Street: This year, it was necessary to resurface two blocks of the asphaltic concrete pavement on North Division street, between Kingsley and Lawrence. and Ann and Catherine, laid in 1915. This work was done by the W. B. Chalmers Company, of Grand Rapids, Michigan, under the supervision ot your Street Commissioner and Engineer. The pavement was found to be in very bad condition; cracks and holes in the wearing surface were numerous. Most of the wearing surface torn up was found to be hardly an inch in thickness instead of the required two inches. The whole wearing surface was torn up and the concrete foundation swept clean. A new asphalt'c concrete wearing surface was laid according to the original specifications, at a cost of \$1.30 per square yard. The cost of removing the old wearing surface was 50c per square yard. The to al cost of repair was distributed as follows:

2,050 square yards of asphal-

tic removed at 50c.....\$1,025.00 2,050 square yards of asphal-

tic concrete relaid at \$1.30 2,665.00 30.47 Engineering and inspection...

Total\$3,720.47

The cost of these repairs was paid for by the city, but will be collected either from the Good Roads Construction Company, the con ractors, or the Chicago Bonding & Surety Company, their sureties, who are under bond to maintain the pavement for a period for five from the date of acceptance by the city.

Jackson Avenue Pavement: An estimate was prepared for the cost of pavement on Jackson avenue, from Huron street to the city limits, at a

cost of \$6.01. At present, we hope to receive federal aid on this street, in which case, all plans and specifications and superintendence will be furnished by the State Highway Department for approval by the Board of Public Works.

Maintenance: All repairs and maintenance of pavements was done under the direction of the Street Department, with the exception of North

Division street.

General: With the general consent of the Board of Public Works and the Common Council, the pavement program for the year of 1918 was discontinued, owing to the government request that only essential improvement be made. The Department of Labor has made a request that all municipalities proceed during the coming year with our normal amount of improvement.

GRADING, OPENING AND MAIN-TAINING STREETS.

Street Lines: The total cost for all work done in connection with the running profiles, establishing grades, setting stakes, and care of street monuments, including the survey of North Main street and Beakes street has been \$345.38.

Street main-Street Maintenance: tenance has been done under the supervision of the Street Commissioner. A road roller with a scarifier attached, was purchased from the Buffalo, Springfield Roller Company for \$4,100, and the old eighteen ton steam roller owned by the city. A 4 cubic foot batch concrete mixer was purchased from the Foot Manufacturing Company at a cost of \$680.00. mixer has been a great aid to the Street Commissioner in building and repairing culverts. The amount saved over the contract price in paving the alley in block 2 S., R. 3 E., was nearly

enough to pay for the mixer.

Oiling Roadways: This year, it was impossible to obtain oil for use on streets as a dust preventative. Calcium chloride was used on several streets, including Washtenaw avenue, South Main street, and Broadway. The total amount spent by this department in preparing estimates, etc., has been \$21.93. The price of the calcium chloride was \$22.00 per ton, car lots, F. O. B., Ann Arbor, Michi-

SANITARY SEWERS.

gan.

As in other public improvements, the building of sanitary sewers was greatly cur ailed during the year of

1918, only sewers of immediate necessity being constructed. Two new sewer districts were established. All sewer work was let to contractors under

our standard specifications.

District No. 86, West Hoover Avenue: This is an eight inch vitrified pipe sewer, extending 450 feet west from the South Main street sewer and emptying into the eight inch vitrified pipe sewer on South Main street. The contract for this sewer was awarded to J. C. Stewart on July 15, 1918, and completed so that the final estimate was awarded on September 24, 1918. The cost has been divided as follows:

Contract cost								. 9	936.10
Engineering									18.13
Inspection									36.43

Sanitary tees with four inch openings were left in the sewer for conconnections from each building and each vacant lot. The total cost of this sewer is distributed as follows:

District No. 87, Ninth Street: This is an eight inch vitrified pipe sewer emptying into the eight inch vitrified pipe sewer on Huron street. The contract for this sewer was awarded to Wm. Eddy & Son on July 15, 1918, and completed so that a final estimate was awarded on August 21, 1918. The cost has been divided as follows:

 Centract cost
 \$292.50

 Inspection
 11.55

 Engineering
 5.09

Total\$309.14

Five percent of the above contract cost, or \$14.63 has been retained for one year, out of which to make deductions for any repairs to the sewer or street made necessary by the construction of the sewer and which may become apparent within one year from the date of the final estimate. The

Abandoned Contracts of Tom Joyce: A settlement was reached with Mr. Joyce's sureties, the Chicago Bonding & Surety Company, on April 12, 1918, and a judgement of \$5,920.80 was received and paid in full.

SANITARY SEWER RECORDS FOR THE STATE SANITARY ENGINEER:

Plans and profiles of the entire sanitary sewer system of the city of Ann Arbor were completed in June, 1918. Two complete copies of the records were forwarded to the State Sanitary Engineer at Lansing. The plans were approved as submitted; one copy was kept to be placed on file in the State Sanitary Engineer's office at Lansing, and the other copy returned to us and is on file in this office. This record consists of three hundred and fifty tracings, size 23x35 inches, which are For everyday reference, filed away. we have blue prints bound in book form. These records are a great help in our office and should have been made even though they had not been requested by the State Sanitary Engineer. The total cost of making these records was \$1578.15, of which amount, \$88.34 was spent in 1916, \$680.42 in 1917, and \$809.39 spent in 1918.

Sanitary Sewer Maintenance: The care and maintenance of existing sanitary sewers during the year of 1918 has cost \$1.568.59. This includes the cost of labor, ma'erial, supplies, and tools. This is \$208.44 less than the amount spent in 1917. The work this year, consisted of building manholes, raising and lowering manhole castings, flushings and cleaning sewers. A cleaning tool was drawn through the main sanitary sewer from the outlet to Fourth avenue.

Sanitary Sewer Relief: For some time, it has been evident that storm water was getting into the sanitary sewer on Church street and on East University avenue. Upon investigation, I found that the roof water from the Engineering Building and Surveying Buildings of the University of Michigan, is conducted to the sanitary sewer on East University ave-The University authorities have been requested to discontinue the connection and run the roof water to a storm sewer. This will relieve the condition on Church s reet and Forest avenue, with which we were troubled last spring.

Tapping Sanitary Sewers: According to your ruling made July, 1914, all tapping of sanitary sewers has been done by a city employee. The cost for such work during the year of 1918 has been \$8.56.

Payment of Five Percent Retained: The following is a tabulated list of the amounts paid to the contractors during the year of 1918 on work completed in 1917. The amount is five percent of the contract cost which was retained for one year:

Dist.	Paid to
No. Location.	Contractor. Contractor.
72. Hamilton, Rose & Sheehan addition .	\$682.93 Ray D. Baker.
75. Hill, Onondaga and Birkshire road	114,55 Wm. Eddy & Son
76. Washington street	21.00 Hochrein & Co.
80. Seventh street	
81. Wells street	22.00 Wm. Eddy & Son
82. Packard and Brooklyn	201.60 Wm. Eddy & Son
83. Eighth street	15.95 Hochrein & Co.
84. Killin's Heights addition	350.83 Wm. Eddy & Son
85. Eber White & Soule boulevards	96.26 Hochrein & Co.

Summary of Sanitary Sewer Dis-districts Nos. 86 and 87, is given below tricts: A tabulated summary of sewer with all information in regard to same.

	SUM	1M	AR	Y	F S.	AN	ITA	RY	SEWE	ERS 1	\mathbf{BUILT}	DURING	1918		
Streets and Limits	·	District	No. of house connections	Total length house con.	Length of main	Manholes	Flushtanks	Lightholes	Total cost	City to pay	Property to pay	Amount of contract	o% retained on contract	When Due	Contractors
E. Hoover, Main St. West Ninth, Huron St. South Totals		86 87	16 8 24	$\begin{vmatrix} 0 \\ 0 \end{vmatrix}$	$ \begin{array}{r} 447 \\ 216 \\ 663 \end{array} $		0 1 1			24.44	284.70		14.63	Oct. 9, 1919 Aug. 20, 1919	J. C. Stewart Wm. Eddy & Son

Storm and Sanitary Sewer on Glen This sewer was completed Before paying the five percent retained for one year, it was decided to inspect the sewer from time The sewer was found to be in good condition from the out-fall to Huron street. It was impossible to inspect it from Huron street to Washington street, due to the vapor formed by the waste water from the boilers in the University of Michigan house, which is allowed to flow into this sewer. Several attempts made to inspect this part of the sewer. but it was impossible for a man to see, on account of the vapor. As the sewer apparently was in good condition, and as the five percent retained was over a year past due, I recommended that it be paid to Wm. Eddy & Son, the contractors. This recommendation was approved and the amount, \$618.77, paid.

STORM SEWERS.

Gott Street Storm Sewer: In April, 1918, the Common Council the construction of a storm sewer on Gott street, from Miller avenue to Summit street. Bids were received on July, 1918, and the contract awarded to Wm. Eddy & Son. This sewer is thirty inch segment block from Miller avenue to Felch street, and twentyfour inch vitrified pipe from Felch street to Summit street, and empties into thirty inch segment block storm sewer on Miller avenue. Work on this contract was completed so that the final estimate was awarded on September 18, 1918. The cost was distributed as follows:

Contract cost								\$5,543.50
Engineering .								
Inspection								

East Washington Street Storm Sewer: This sewer is built of thirty inch segment block and twenty-four inch vitrified pipe. The construction was ordered by the Common Council in

April, 1918, and the contract was awarded to A. W. Baldwin on July 15, 1918. The work was completed so that the final estimate was awarded on October 9, 1918. The cost was distributed as follows:

Contract	cos	t					,			\$3,767.10
Engineeri	ing									38.93
Inspection										107 00

Catherine Street and East Hoover Avenue Storm Sewer: Catherine street storm sewer is a twenty-four inch vitrified pipe sewer connecting into the existing storm sewer at Main street and extends to the alley be ween Main and Fourth avenue. Hoover avenue storm sewer is a fifteen inch vitrified pipe sewer, extending from Allen's creek to a point opposite the office of the Hoover Steel Ball Company. Hoover avenue, at this point, was without drainage and a very bad condition existed after every rain. This storm sewer was built to relieve this bad condition. The contract for the construction of these sewers was awarded to Wm. Eddy & Son, on September 16, 1918, and completed so that a final es imate was awarded on November 6, 1918. The cost is distributed as follows:

Contract cost	. \$1,349.05
Engineering	
Inspection	. 48.00

Care of Storm Water, General: During the year of 1918, this department

has spent \$200.72 for care of storm water. This amount was spent on miscellaneous work around the city. The greater amount being spent on Granger avenue, across Packard, and on North Main street, from the Ann Arbor railroad transfer track.

Storm Sewer Maintenance: For the maintenance and cleaning of storm

sewers, cleaning inlets, etc., during the year of 1918, this department has spent \$393.37. Of this amount, \$294.74 was for labor and \$26.32 for material.

Five Percent Retained: The five percent retained for one year on storm sewers completed during the year of 1917, and paid during 1918, is listed below:

	Paid to	
Location.		. Contractors.
West Jefferson street	\$ 91.98	Hochrein & Co.
West Madison street	131.34	Hochrein & Co.
Arch street		Wm. Eddy & Son.
State, from Edwin to Dewey, and Dewey		
State to Packard	589.47.	Wm. Eddy & Son.
South University avenue	71.58	Wm. Eddy & Son.
Cambridge and Baldwin	196.01	Wm. Eddy & Son.

Storm Sewer Survey: During the past year I found that the records of existing storm sewers in the city were very incomplete, in fact, we had no records in our office of storm sewers built previous to 1912. During November and Dcember of the past year, we made a complete survey of all existing storm sewers. We now have on file in the Engineer's office, complete plans and profiles of every storm sewer in the city. These plans and profiles show the location and depth of all storm sewers, manholes, inlets, catch-basins. This work has been done at a total cost of \$212.56.

Roof Water From the University Buildings: By your order, an investigation to determine if possible, where the storm water came from, that was causing trouble in Church street and Forest ave. sanitary sewers was made. Our investigation revealed the fact that the roof water from the Engineering building, and Surveying buildings, was conducted to the sanitary sewer on East University avenue.

Summary: A summary of storm sewers completed during 1918, and a summary of all storm sewers will be found on the following pages:

/	SUMMA	RY (OF :	STO	RM	SEW	ERS BI	JILT DUF	RING 19	918	
Street and Limits	Length of main	Length of inlet con.	Regular	Alley	Special	Manholes	Total Cost	Amount of Contract	5% retained on contract	When Due	Contractors
E. Washington and 14th St Gott St., Miller to Summit Catherine, Main to Alley E. Hoover at Hoover Ball Co Totals	. 1224 . 119 . 191	320 514 13 84 931	10 14 1 3 28			5 5 2 1 1	$\begin{array}{c} 3913.58 \\ 5663.73 \\ 713.01 \\ 694.07 \\ 10984.39 \end{array}$	5415.47	184.63 270.77 34.18 32.27 521.85	Oct. 10, 1919 Sept. 9, 1919 Oct. 23, 1919 Oct. 23, 1919	A. W. Baldwin Wm. Eddy & Son Wm. Eddy & Son Wm. Eddy & Son

23 0	COMMON COUNCIL
ments: The pavements b 1918, is divided Pavements. Sanitary sewer	of Sewers and Pave- total cost of sewers and ailt up to, and including led as follows:\$391,862.68 ers260,589.60134,487.25
The total conserver compared to the compared t	\$176,616.21
1901 1902 1903 1904 1905	$egin{array}{cccccccccccccccccccccccccccccccccccc$
1908 1909 1910 1911 1912	$egin{array}{cccccccccccccccccccccccccccccccccccc$
1914 1915 1916 1917	51,218.16 $51,118.16$ $51,118.18$ $57,588.48$ $58,919.23$ $13,123.18$
The total of divided as f year of comp 1914, State to Liberty	s reet, William \$ 4,572.98
avenue to 1917, East Fourth av avenue 1918, North	street, Fourth Fifth avenue 5,104.62 Huron street enue to Fifth
	to Ann street. 3,720.47

BRIDGES AND OTHER IMPROVE-MENTS.

Broadway Bridge: The contract for the construction of Broadway bridge was awarded to Mr. J. P. Rusche, of Grand Rapids, Michigan, in February, 1917. The work was commenced early in May, 1917, and the bridge was completed so that a final estimate was awarded to Mr. Rusche on Sep ember 4, 1918. The bridge is a two span reinforced concrete arch bridge, over the Huron river on Broadway. The entire work of design and superintendence

of construction was done through your Engineer's office. The bridge is designed to carry the heaviest street and interurban cars. The total cost is divided as follows:

Payments to contractor	\$51,608.28
Engineering	1,061.16
Inspection	552.43
Work done by Engineering	
Department	24.55

Total cost\$53,246.42 The amount spent for engineering during 1916 and 1917 was \$901.54, leaving \$159.62 as the amount spent during 1918. The amount spent for inspection during 1917 was \$471 07, leaving \$81.36 as the amount spent for inspection during 1918. The amount paid to the contractor during 1918 was \$20,875.84. The total cost of engineering amounts to 2.2 percent of the contract cost. The total cost of inspection amounts to 1.07 percent of the con ract cost.

Bridge at Island Park: On August 6 1917, this department was authorized by the Common Council to proceed with the construction of this bridge by city force account. Reinforced steer was not received until late in November, 1917, too late to begin construction that year. The work was started during the early part of May, 1918, and the bridge was completed during July. The total cost of the bridge was as follows:

Steel																\$	105.41
Labor																	996.46
Team																	118.51
Cartage																	26.21
Lumber											٠						277.84
Coal	•																5.64
Supplies																	44.33
Repairs																	12.65
85 barre	S	;	o	f	(9	n	a	e	r	1	t					192.33

Total\$1,779.38 The total cost of the bridge has been \$479.38 more than the amount appropriated. This is due to the increased cost of labor, cement, lumber, and all materials used. Another difficulty was experienced in getting a man familiar with Fridge construction. It was impossible to get a man of this type for such a short 'ob, consequently, we were forced to hire a house carpenter who was not familiar with cost of labor is thus The work. higher than it should have been. Considering everything, the cost of the bridge is about 25 percent higher than the appropriation made nearly years ago. This is consistent with the advance in the cost of building construction in general.

Bridge and Viaduct Maintenance: The viaduct on Broadway, between the Broadway bridge and the Michigan Central railroad overhead bridge, was painted with a cement mortal wash. Wall Street bridge was given the same treatment. The iron pipe raing on the Broadway viaduct was painted with one coat of asphaltic paint. The total cost of this work including labor and materials was \$52.88.

Heating Plant at Fire Station No. The heating system installed in this station in 1916 and 1917 did not operate successfully during the winter of 1918; there has been difficulty in heating the building, and the furnace needed constant attention. It was apparent that, the old system needed overhauling, in order to put it in proper working condition. The Board of Public Works was authorized by the Council, to proceed with the work of making the necessary repairs. The repair work was done by Hulzel & Co.. under your direction, at a cost of \$502.97; repairs to plumbing by G. A. Raiser at a cost of \$185.19, work on scales at a cost of \$507.61, making a total of \$1,195.77, spent at the Fire Station, during 1918.

Sidewalk and Curb Grades: During the past year, this department has furnished lines and grades for 1% miles of sidewalks, which were built by the city contractors. Beside this, the department has furnished lines and grades for all walks built by property owners. The total cost of sidewalks built by the city was \$6,104.82. The total cost for sidewalks and curb grades during 1918, has been as follows:

Sidwalk grades								\$461.53
Curb grades								

Total\$71,285.84 Of the above amount, \$32,105.05 was spent in 1917 on work not completed until 1918. This leaves a net amount paid out through this department for public works, during the past year, of \$39,180.39. This is about half of the amount expended during the year of 1917.

GENERAL.

Steere Farm Maintenance: The survey of the Steere Farm, which was started in December, 1917, was completed during the past year at a total cost of \$158.67, of which \$66.00 was spent in 1917. Deeds were prepared, and a trade made with Mr. Steere in order to equalize the trade with Mr. Steere, the southeast quarter of the scutheast quarter of section 17, town 3 S., R. 6 E., Washtenaw county, was deeded back to him. This description embraces forty and a fraction acres. In return, Mr. Steere deeded to the city, that part of the southeast quarter of the northeast quarter of section 17, T. 35 S., R. 6 E., Wash enaw county, formerly owned by Mr. Steere. This parcel of land embraces twenty-six and a fraction acres. Thus Mr. Steere received from the city, forty and a fraction acres and deeded to the city, twenty-six and a fraction acres of land. This thirteen acres is returned to Mr. Sleere, owing to the fact that in the original transaction, he was paid for thirteen acres less than the amount actually received by the Mr. Steere has contended for city. some time, that the city had received thirteen acres more than they paid for. Our survey verifies Mr. Steer'es statement, consequently we were ordered by the Common Council to make the proper survey and prepare deeds for a trade with Mr. Steere, whereby he would receive thirteen acres of land.

Tools, Machinery and Supplies: A sixteen hundred gallon per hour capacity centrifugal pump was purchased for \$360.00, also one four and one-half cubic foot batch concrete mixer for \$680.00, and one road roller with scarifier attached for \$4 100.00.

Work for Other Departments: For the Street Department, work to the amount of \$118.30 was done by employees of the Engineering Department. This includes unloading tank car of tarvia and firing boiler. For the Park Department, \$195.26 was spent in connection with the Island Park bridge and other miscellaneous work. For the Water Department, \$1.75 was spent by this department.

Automobile: In April, 1918, you recommended to the Common Council

that they trade in the Ford car belonging to the city, in use by this department. This was concurred in and a new car was purchased early in April. The total cost of repairs and supplies on the new car from April to December 31 was \$86.25. This, I think, is a very remarkably low cost for repairs. The amount spent for tire repairs since May first, has been \$4.50. This is very low indeed. The total cost of running the car for the past year has been as follows:

SUMMARY OF EXPENDITURES OF ENGINEERING DEPARTMENT.
Engineering\$3,974.73
Sewer work 2,101.50
Clerical 746.64
Inspection
Total labor
Office supplies and equipment\$ 384.21
Surveying supplies and equipment
Automobile, supplies and repairs
Sewers, supplies and equipment
Bridge and viaduct maintenance 12.55
Gasoline and oil from city tanks 125.35
Miscellaneous items 29.13
Total materials\$1,701.43 \$7,877.45

2. Records 833 3. Correspondence 118 4. Reports, monthly and annual 145	.08
1. Accounts \$ 49 2. Records \$33 3. Correspondence 118 4. Reports, monthly and annual 145	0.34 0.08
2. Records 833 3. Correspondence 118 4. Reports, monthly and annual 145	0.34 0.08
3. Correspondence	.08
4. Reports, monthly and annual	
4. Reports, monthly and annual	0.7
r (2)	.07
5. Council, board and committee recetings 64	.13
	.71
	.75
8. Information given to public	.51
9. Information received from others for city	.43
10. Sanitary sewer maintenance	.97
11. Storm sewer maintenance	
	.08
13. City yards and shed, cleaning and arranging 9	.13
14. Supplies, Engineer's office	.41
15. Eqipment, Engineer's office	.95
17. Equipment, surveying 4	.41
18. Bids, quotations, and discount on material for general pur-	
poses 6	.95
	.72.
20. Work for Park	.60
22. Sidewalk grades	
23. Curb grades	.12
24. Street lines and grades 345	
	.74
56. Steere Farm, survey of 92	.67
57. Claims 1	.72
58. Tapping sanitary sewer	.56
59. Sickness and vacations	
	.74
	.33
66. Directing work of department	
67. Oiling roadways	.93
75. Care of storm water—general	

	COMMON COUNCIL-FEBRUARY 3, 1919.	233
85. 86. 87.	Paving on Miller avenue	$\begin{array}{r} .72 \\ 265.53 \\ \end{array}$
$\frac{91}{92}$.	No. 1	$4.08 \\ 809.39 \\ 118.30$
95.	Ninth street sanitary sewer, Washington to Huron street	16.64
$100. \\ 103.$	Assessor's plats for city Onondaga and Hill street sanitary sewer	43.17 $.75$
106.	Bridge at Island Park	180.66
108.	Sanitary sewer on Wells street, Baldwin to Ferdon road	.75
$110. \\ 115.$	Arch street storm sewer, Packard to Oakland	$\begin{array}{c} .75 \\ 1.60 \end{array}$
125.	Paving alley in block 2 S., R. 3 E	23.32
$126. \\ 127.$	Improvement to City property—Fourth avenue Storm sewer on East Washington and 14th, to Belser	$\begin{matrix} .75 \\ 146.18 \end{matrix}$
128.	Storm sewer on Gott, Miller avenue to Summit	120.23
129.	Sanitary sewer on West Hoover avenue	$69.21 \\ 19.34$
$130. \\ 131.$	Sanitary sewer on Berkshire road and Orchard street Municipal Garage	$\frac{19.34}{25.72}$
132.	Sanitary sewer on East Hoover	8.42
133. 134.	Sanitary sewer on East Hoover avenue	$\begin{array}{c} 13.65 \\ 8.41 \end{array}$
135.	Storm sewer on East Catherine and East Hoover avenue	68.03
$136. \\ 137.$	Repairing Division street pavement	$\begin{array}{c} 21 & 23 \\ 21 & 2.56 \end{array}$
138.	Dexter avenue sanitary sewer	-12.51
139.	Tool house at Fair View cemetery	$\frac{2.57}{40.37}$
141. 142.	Investigation of roof water from University buildings Jackson avenue pavement	$\begin{array}{c} 40.37 \\ 6.01 \end{array}$
	Total	
CITIM	MADY OF EVDENDITIDES FOR FOUIDMENT AND SUD	DITTE
SUM Job.	MARY OF EXPENDITURES FOR EQUIPMENT AND SUP No.	PLIES.
Job. 10.	No. Sanitary sewer construction supplies	356.67
Job. 10. 11.	No. Sanitary sewer construction supplies	
Job. 10. 11. 75. 14.	No. Sanitary sewer construction supplies	356.67 26.32 62.16 302.61
Job. 10. 11. 75. 14. 15.	No. Sanitary sewer construction supplies	356.67 26.32 62.16 302.61 82.30
Job. 10. 11. 75. 14. 15. 16	No. Sanitary sewer construction supplies \$ Storm sewer maintenance supplies \$ Storm sewer construction supplies \$ Supplies for Engineer's office \$ Equipment for Engineer's office \$ Surveying supplies \$ Surveying equipment \$	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \end{array}$
Job. 10. 11. 75. 14. 15. 16 17.	No. Sanitary sewer construction supplies \$ Storm sewer maintenance supplies \$ Storm sewer construction supplies \$ Supplies for Engineer's office \$ Equipment for Engineer's office \$ Surveying supplies \$ Surveying equipment \$ Cartage, Dewey avenue sanitary sewer	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \end{array}$
Job. 10. 11. 75. 14. 15. 16	No. Sanitary sewer construction supplies \$ Storm sewer maintenance supplies \$ Storm sewer construction supplies \$ Supplies for Engineer's office \$ Equipment for Engineer's office \$ Surveying supplies \$ Surveying equipment \$ Cartage, Dewey avenue sanitary sewer \$ Cost of new car \$300.00	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \end{array}$
Job. 10. 11. 75. 14. 15. 16 17.	No. Sanitary sewer construction supplies \$ Storm sewer maintenance supplies \$ Storm sewer construction supplies \$ Storm sewer construction supplies \$ Supplies for Engineer's office \$ Equipment for Engineer's office \$ Surveying supplies \$ Surveying equipment \$ Cartage, Dewey avenue sanitary sewer \$ Cost of new car \$300.00 Repairs, cleaning and oiling \$232.32 Gasoline and oil \$160.00	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \\ 5.92 \end{array}$
Job. 10. 11. 75. 14. 15. 16 17. 119. 60.	No. Sanitary sewer construction supplies Storm sewer maintenance supplies Storm sewer construction supplies Storm sewer construction supplies Supplies for Engineer's office Equipment for Engineer's office Surveying supplies Surveying equipment Cartage, Dewey avenue sanitary sewer Cost of new car Repairs, cleaning and oiling 232.32 Gasoline and oil \$	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \end{array}$
Job. 10. 11. 75. 14. 15. 16 17.	No. Sanitary sewer construction supplies Storm sewer maintenance supplies Storm sewer construction supplies Storm sewer construction supplies Supplies for Engineer's office Equipment for Engineer's office Surveying supplies Surveying equipment Cartage, Dewey avenue sanitary sewer Cost of new car Supplies Cost of new car Surveying and oiling Surveying equipment Sur	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \\ 5.92 \\ \end{array}$
Job. 10. 11. 75. 14. 15. 16 17. 119. 60.	No. Sanitary sewer construction supplies Storm sewer maintenance supplies Storm sewer construction supplies Storm sewer construction supplies Supplies for Engineer's office Equipment for Engineer's office Surveying supplies Surveying equipment Cartage, Dewey avenue sanitary sewer Cost of new car Supplies Surveying equipment Cartage, Dewey avenue sanitary sewer Cost of new car Surveying equipment Surveyi	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \\ 5.92 \\ \end{array}$
Job. 10. 11. 75. 14. 15. 16 17. 119. 60.	No. Sanitary sewer construction supplies Storm sewer maintenance supplies Storm sewer construction supplies Storm sewer construction supplies Supplies for Engineer's office Equipment for Engineer's office Surveying supplies Surveying equipment Cartage, Dewey avenue sanitary sewer Cost of new car Storm sewer avenue sanitary sewer Surveying supplies Cartage, Dewey avenue sanitary sewer Surveying equipment Surveying equipment Surveying equipment Surveying equipment Surveying supplies Su	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \\ 5.92 \\ \\ 692.32 \\ 12.55 \\ 5.95 \\ 23.18 \\ \hline 1,675.69 \\ \end{array}$
Job. 10. 11. 75. 14. 15. 16 17. 119. 60.	No. Sanitary sewer construction supplies Storm sewer maintenance supplies Storm sewer construction supplies Supplies for Engineer's office Equipment for Engineer's office Surveying supplies Surveying equipment Car'age, Dewey avenue sanitary sewer Cost of new car Repairs, cleaning and oiling 232.32 Gasoline and oil Bridge and viaduct supplies Broadway bridge supplies Miscellaneous Total labor	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \\ \hline 5.92 \\ \\ 692.32 \\ 12.55 \\ \hline 5.95 \\ 23.18 \\ \hline \\ 1.675.69 \\ 7.176.02 \\ \end{array}$
Job. 10. 11. 75. 14. 15. 16 17. 119. 60.	No. Sanitary sewer construction supplies Storm sewer maintenance supplies Storm sewer construction supplies Storm sewer construction supplies Supplies for Engineer's office Equipment for Engineer's office Surveying supplies Surveying equipment Cartage, Dewey avenue sanitary sewer Cost of new car Storm sewer avenue sanitary sewer Surveying supplies Cartage, Dewey avenue sanitary sewer Surveying equipment Surveying equipment Surveying equipment Surveying equipment Surveying supplies Su	$\begin{array}{c} 356.67 \\ 26.32 \\ 62.16 \\ 302.61 \\ 82.30 \\ 68.01 \\ 37.70 \\ \hline 5.92 \\ \\ 692.32 \\ 12.55 \\ \hline 5.95 \\ 23.18 \\ \hline \\ 1.675.69 \\ 7.176.02 \\ \end{array}$
Job. 10. 11. 75. 14. 15. 16 17. 119. 60.	No. Sanitary sewer construction supplies \$ Storm sewer maintenance supplies \$ Storm sewer construction supplies \$ Storm sewer construction supplies \$ Supplies for Engineer's office \$ Equipment for Engineer's office \$ Surveying supplies \$ Surveying equipment \$ Car'age, Dewey avenue sanitary sewer \$ Cost of new car \$300.00 Repairs, cleaning and oiling \$232.32 Gasoline and oil \$160.00 \$ Bridge and viaduct supplies \$ Broadway bridge supplies \$ Miscellaneous \$ Total labor \$ Total equipment and supplies \$ Engineer's Office: The amount chargeable directly to your Engineer's Office: The amount chargeable directly to your Engineer's office by mysef and employees, has been distributed as follows.	692.32 12.55 5.95 23.18 692.32 12.55 5.95 23.18 1,675.69 7,176.02 1,675.69 3,851.71 gineer's to run-
Job. 10. 11. 75. 14. 15. 16 17. 119. 60.	No. Sanitary sewer construction supplies \$ Storm sewer maintenance supplies \$ Storm sewer construction supplies \$ Storm sewer construction supplies \$ Supplies for Engineer's office \$ Equipment for Engineer's office \$ Surveying supplies \$ Surveying equipment \$ Car'age, Dewey avenue sanitary sewer \$ Cost of new car \$300.00 Repairs, cleaning and oiling \$232.32 Gasoline and oil \$160.00 \$ Bridge and viaduct supplies \$ Broadway bridge supplies \$ Miscellaneous \$ Total labor \$ Total equipment and supplies \$ Engineer's Office: The amount chargeable directly to your Eng., including all equipment, supplies, and all the time devoted the office by mysef and employees, has been distributed as fol No. Office accounts \$ \$ Storm sewer maintenance supplies \$ \$ \$ Surveying supplies \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	356.67 26.32 62.16 302.61 82.30 68.01 37.70 5.92 692.32 12.55 5.95 23.18 1,675.69 7,176.02 1,675.69 3,851.71 gineer's to run- lows:
Job. 10. 11. 75. 14. 15. 16. 17. 119. 60. 65. 86.	No. Sanitary sewer construction supplies Storm sewer maintenance supplies Storm sewer construction supplies Storm sewer construction supplies Supplies for Engineer's office Equipment for Engineer's office Surveying supplies Surveying equipment Car'age, Dewey avenue sanitary sewer Cost of new car Repairs, cleaning and oiling Bridge and viaduct supplies Broadway bridge supplies Broadway bridge supplies Miscellaneous Total labor Total equipment and supplies Engineer's Office: The amount chargeable directly to your Engle, including all equipment, supplies, and all the time devoted the office by mysef and employees, has been distributed as fol No. Office accounts Office records	356.67 26.32 62.16 302.61 82.30 68.01 37.70 5.92 692.32 12.55 5.95 23.18 1,675.69 7,176.02 1,675.69 8,851.71 gineer's to run- lows:
Job. 10. 11. 75. 14. 15. 16 17. 119. 60. 65. 86.	No. Sanitary sewer construction supplies \$ Storm sewer maintenance supplies \$ Storm sewer construction supplies \$ Supplies for Engineer's office \$ Equipment for Engineer's office \$ Surveying supplies \$ Surveying equipment \$ Cartage, Dewey avenue sanitary sewer \$ Cost of new car \$300.00 Repairs, cleaning and oiling 232.32 Gasoline and oil 160.00 \$ Bridge and viaduct supplies \$ Broadway bridge supplies \$ Miscellaneous \$ Total equipment and supplies \$ Engineer's Office: The amount chargeable directly to your Engineer's office by mysef and employees, has been distributed as fol No. Office accounts \$ Office records \$ Office records \$ Office correspondence Reports, monthly and annual	692.32 692.32 692.32 12.55 5.95 23.18 1,675.69 7,176.02 1,675.69 7,176.02 1,675.69 1,675.69 1,675.69 1,675.69 1,675.69
Job. 10. 11. 75. 14. 15. 16. 17. 119. 60. 65. 86.	No. Sanitary sewer construction supplies Storm sewer maintenance supplies Storm sewer construction supplies Storm sewer construction supplies Supplies for Engineer's office Equipment for Engineer's office Surveying supplies Surveying equipment Car'age, Dewey avenue sanitary sewer Cost of new car Repairs, cleaning and oiling Bridge and viaduct supplies Broadway bridge supplies Broadway bridge supplies Miscellaneous Total labor Total equipment and supplies Engineer's Office: The amount chargeable directly to your Engle, including all equipment, supplies, and all the time devoted the office by mysef and employees, has been distributed as fol No. Office accounts Office records	692.32 692.32 692.32 12.55 5.95 23.18 1,675.69 7,176.02 1,675.69 8,851.71 gineer's to run- lows: 49.73 521.59 118.08

646.55

204.26

4th av., Beakes to Summit

Depot, 4th av. to Main

45 46 47 48 49 50 51 52 53 54 55 57	White and McKinley Olivia av. and Minerva rd. E. Ann, Glen to Ingalls Murray av., Washington to Liberty Olivia av., N. of Minerva rd. Myrtle, Oswego to city limits Summit st., Main to Spring Hiscock st., Fountain to Miner. Crest av. and W. Washington W. Liberty to city limit Austin av. and Washtenaw av. Thild Ward Geddes av., Oswego to 210 ft. E.	1911 1911 1912 1912 1912 1914 1914 1913 1914 1914 1914 1914	733 655 724 157 651 1295 372 1774 464 2486 7186	$\begin{vmatrix} 1 & 2 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 &$	1 1 1 1 1 1 1 1 2 8 1	1 1 1 1 1 3 1 2 8 1	733 655 738 166 668 1302 378 1798 472 2494 6832 281	430	* 29 * 28 27 8 17 * 41 * 14 66 24 * 78 * 244 6	350 102 370 1006 382	1 1 1 1	538.53 532.71 1,009.62 301.02 1,795.69 1,158.57 318.41 2,432.81 1,101.54 3,862.29 7,655.78 574.29
58 59 60 61 62	W. Huron st. to end of pavement. Ann st., Clark to Observatory Brown st., 4th av. and Philip st E. Catherine, Detroit and Fourth E. Catherine, Clark to 100 ft. E	1913 1913 1914 1914 1914	$ \begin{array}{c c} 75 \\ 610 \\ 2551 \\ 2622 \\ 101 \end{array} $	179	1 1 3 4 1	1 1 3 4 1	82 614 2576 2626 104 696 C.I.		* 18 * 93 * 73 * 5	1326	1	187.06 765.61 2,902.70 4,863.19 155.14
63	Sixth, Seventh and Eighth sts	1914	3146	12	5	5	2372 T. 36 C. I.	-	88	1330		4,658.28
64 65 66	Third, Fourth and Fifth sts Packard st First st., Catherine to Ann	1914 1914 1914 1914	647 428 225 545	1 1 2	3 1 1	3 1 1	628 T. 428 231		* 31 * 11 * 10 * 16			750.98 C 271.15 C 423.80 Z
67 68 69 70	Moore st., Broadway to Pontiac	1915 1916 1916	$\begin{array}{r} 4523 \\ 250 \\ 552 \end{array}$	$\begin{vmatrix} 21 \\ 3 \end{vmatrix}$	6 1 1	1	546 2735 222 504	. 788	* 16 * 77 * 14 * 24	R	1	634.22 3,593.14 250.63 622.18
$\begin{bmatrix} 71 \\ 72 \\ 73 \end{bmatrix}$	Roosevelt av., Church to Forest	1916 1917 1915 1916	$egin{array}{c} 222 \\ 10297 \\ 188 \\ 1766 \\ \end{array}$	33 10	1 9 1 2	1	204 6014 188 1670	3661	* 9 *311 * 6 48	1064		$egin{array}{cccccccccccccccccccccccccccccccccccc$
74 75	Lincoln st., 4th av. to Main	1916 1917	564 1366	6	$\frac{2}{2}$		524 1312 12 C. I.	250	* 20 * 27	1001	1	640.89 2,499.17
76 77 78 79	Washington st., 12th to 14th John K. ave, and First st. Fifth st., south of Madison Hiscock st., Summit to Spring.	1917 1916 1916 1916	646 995 882 1080	3 4 3 6	1 2 1 1	2	340 V.T. 923 806 1002 1310 V.T.	15 in.	* 22 * 36 * 38 * 39			862.93 1,082.34 874.80 1,251.27
50 51 52 53 54	Seventh st., Liberty to Jefferson. Weils st., Baldwin to Ferdon Packard and Brooklyn Eighth st., Huron to Washington. Killins Heights Addition	1917 1917 1917 1917 1917	$egin{array}{c} 1374 \\ 368 \\ 3307 \\ 210 \\ 5324 \\ \end{array}$	6 3 11	2 1 2 1 8		12 C. I. 336 3073 198 4932		* 26 * 16 *117 * 6 *196		1	$\begin{array}{c} 1,204.50 \\ 485.85 \\ 4,165.25 \\ 339.01 \\ 7.218.53 \end{array}$
85 86 87	Eber White and Soule Blvd. West Hoover Ave. Ninth St., Huron St. South. Total	1917 1918 1918	$egin{array}{c c} 1144 & \\ 447 & \\ 216 & \end{array}$	7	1		$1082 \\ 415 \\ 200$		* 31 * 16 * 8			7,218.53 $2,035.79$ 990.66 309.14 $$260,589.60$
	* Branches only.				(2)							\$260,589.60

Note—District 23 never accepted by city. Above data is engineer's approximate estimate. Note—In District No. 50 one 8 in, house connection, 28 ft. long is included in above table.

						1 77
7.	Numbering houses					. 1.75
8.	Information to public					. 280.51
9.	Information from public					
12.	Cleaning and arranging Cleaning and arranging	word and	ched			
13. 14.	Office supplies	yaru and	sileu			. 269.61
15.	Office equipment		• • • • • • • • •			81.25
16.	Surveying supplies					
17.	Surveying equipment					
59.	Sickness and vacations.					
66.	Directing work of depar	tment				. 433.94
	Total					.\$2,323.91
	SUMMARY OF COS'	T OF AI	L PUBL	IC IMPR	OVEMENT	rs.
Cos	of sewers in 1918					\$12,283.89
Cos	of pavements in 1918					839.29
	urfacing Division street					3,720.47
	adway bridge					
Fire	Station No. 1			,		1,195.77
						-
	Total			Acmong	DIVE	\$39.180.79
	SUMMARY OF PAYM					
J. (Stewart, sanitary sewer	c, District	t No. 86.	0.7		\$ 936.10
	. Eddy & Son, sanitary s					
	. Eddy & Son, Gott stree					5,543.50
wm	. Eddy & Son, Catherine					1,349.05
A T	sewers					3.767-10
	B. Chalmers, Division st					3,690.00
	Rusche, Broadway brid					20,875.84
Hoo	hrein & Co., 5 percent r	etained			• • • • • • • • •	411.06
	D. Baker, 5 percent reta					682.93
Wm	. Eddy & Son, 5 percent	retained				2,196.82
						4.190.02
	. Budy & con, o person		• • • • • • • • •		· · · · · · · · · · -	2,196.82
	Totals					\$39,744.90
						\$39,744.90
	Totals SUMMARY OF EXPEN	DITURE	s For I	ABOR D	URING 191 Sewer	\$39,744.90 18.
	Totals SUMMARY OF EXPEN	DITURE	S FOR I	ABOR D	URING 19: Sewer n. Work.	\$39,744.90 18.
G. I	Totals SUMMARY OF EXPEN Eng H. Sandenburg	DITURE ineering. 1,618.25	S FOR I	ABOR D Inspectio \$ 9.57	URING 19: Sewer n. Work. \$ 150.16	\$39,744.90 18. Totals. \$1,777.98
G. I F. I	Totals SUMMARY OF EXPEN Eng H. Sandenburg \$1 L. Feiner 1	DITURE ineering. 1,618.25 1,081.86	ES FOR I	ABOR D Inspectio \$ 9.57 86.73	URING 192 Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33
G. I F. I Man	Totals SUMMARY OF EXPEN Engr H. Sandenburg \$1 L. Feiner 1 hley Osgood	NDITURE ineering. 1,618.25 1,081.86 332.50	ES FOR I	ABOR D Inspectio \$ 9.57 86.73	URING 192 Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50
G. I F. I Man W.	Totals SUMMARY OF EXPEN Engr I. Sandenburg \$1 L. Feiner 1 aley Osgood B. Russell	NDITURE incering. 1,618.25 1,081.86 332.50 204.94	ES FOR I	ABOR D Inspectio \$ 9.57 86.73	URING 192 Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94
G. I F. I Man W. J. V	Totals SUMMARY OF EXPEN Engr I. Sandenburg \$1 L. Feiner 1 nley Osgood B. Russell W. Walsh	NDITURE ineering. 1,618.25 1,081.86 332.50 204.94 129.30	Cierical.	Inspectio \$ 9.57 86.73	URING 192 Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71
G. H F. I Man W. J. V H.	Totals SUMMARY OF EXPEN Engr I. Sandenburg \$1 L. Feiner 1 nley Osgood B. Russell W. Walsh L. Stanger	NDITURE ineering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80	ES FOR I	Inspectio \$ 9.57 86.73	URING 19: Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80
G. I F. I Man W. J. V H.	Totals SUMMARY OF EXPEN Engr H. Sandenburg \$1 L. Feiner 1 Aley Osgood 1 B. Russell 1 V. Walsh 1 L. Stanger 1 W. Francis	NDITURE incering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80 93.15	ES FOR I	Inspectio \$ 9.57 86.73	URING 19: Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80 93.15
G. H F. I Man W. J. V H. G. Y	Totals SUMMARY OF EXPEN Engr H. Sandenburg \$1 L. Feiner 1 nley Osgood 2 B. Russell 3 W. Walsh 4 L. Stanger 3 W. Francis 3 W. Weeber 4	NDITURE incering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80 93.15 90.45	ES FOR I	Inspectio \$ 9.57 86.73 	URING 19: Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80 93.15 90.45
G. H F. I Man W. J. V H. G. Y R.	Totals SUMMARY OF EXPEN Engr H. Sandenburg \$1 L. Feiner 1 nley Osgood 1 B. Russell 1 W. Walsh 1 L. Stanger 1 W. Francis 1 W. Weeber 1 M. Woodward 1	NDITURE ineering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80 93.15 90.45 69.40	ES FOR I	Inspectio \$ 9.57 86.73 	URING 19: Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80 93.15 90.45 73.80
G. H F. I Man W. J. V H. G. S R.	Totals SUMMARY OF EXPEN Engr H. Sandenburg \$1 L. Feiner 1 nley Osgood 1 B. Russell 1 W. Walsh 1 L. Stanger 1 W. Francis 1 W. Weeber 1 M. Woodward 1 Hassan 1	NDITURE ineering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80 93.15 90.45 69.40 56.58	Cierical.	ABOR D Inspectio \$ 9.57 86.73 50.41 4.40 176.17	URING 19: Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80 93.15 90.45 73.80 232.75
G. H F. I Man W. J. V H. G. S R. A. S	Totals SUMMARY OF EXPEN Engr H. Sandenburg \$1 L. Feiner 1 nley Osgood 1 B. Russell 1 W. Walsh 1 L. Stanger 1 W. Francis 1 W. Weeber 1 M. Woodward 1 Hassan 1 Jacka	NDITURE ineering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80 93.15 90.45 69.40 56.58 54.30	Cierical.	ABOR D Inspectio \$ 9.57 86.73	URING 19: Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80 93.15 90.45 73.80 232.75 54.30
G. H F. I Man W. J. V H. G. S R. A. S O. O	Totals SUMMARY OF EXPEN Engr H. Sandenburg \$1 L. Feiner 1 nley Osgood 1 B. Russell 1 W. Walsh 1 L. Stanger 1 W. Francis 1 W. Weeber 1 M. Woodward 1 Hassan 1 Jacka 1 C. Klager 1	NDITURE incering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80 93.15 90.45 69.40 56.58 54.30 21.00	Cierical.	ABOR D Inspectio \$ 9.57 86.73	URING 19: Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80 93.15 90.45 73.80 232.75 54.30 21.00
G. H. Man W. J. V. H. G. V. R. S. C. G. G. F. D. G. C. F. D. C. C. F. D. C. C. F. D. C. C. F. D. C. C. C. F. D. C.	Totals SUMMARY OF EXPEN Eng I. Sandenburg \$1 L. Feiner 1 nley Osgood B. Russell W. Walsh L. Stanger W. Francis W. Weeber M. Woodward Hassan Jacka C. Klager H. Taylor	NDITURE ineering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80 93.15 90.45 69.40 56.58 54.30	Cierical.	ABOR D Inspectio \$ 9.57 86.73	URING 19: Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80 93.15 90.45 73.80 232.75 54.30 21.00 18.15
G. H. Man W. J. V. H. G. V. R. A. C. G. G. G. F. J. H. L. J. L. J.	Totals SUMMARY OF EXPEN Engr H. Sandenburg \$1 L. Feiner 1 nley Osgood 1 B. Russell 1 W. Walsh 1 L. Stanger 1 W. Francis 1 W. Weeber 1 M. Woodward 1 Hassan 1 Jacka 1 C. Klager 1 H. Taylor 1 P. Dodge 1 R. Milburn 1	NDITURE ineering. 1,618.25 1,081.86 332.50 204.94 129.30 94.80 93.15 90.45 69.40 56.58 54.30 21.00 18.15	Cierical.	ABOR D Inspectio \$ 9.57 86.73	URING 192 Sewer n. Work. \$ 150.16 204.74	\$39,744.90 18. Totals. \$1,777.98 1,373.33 332.50 204.94 179.71 94.80 93.15 90.45 73.80 232.75 54.30 21.00
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SUMMARY OF PAVEMENTS IN THE CITY OF ANN ARBOR

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Huron to Ann 14 E. Huron and Twelfth 15 Washington, 1910 1,159 1,351.34 1.17 .88 Ann Arb 6,685.50 .99 .76 Ann Arb	
14 E. Huron and Twelfth 1910 6,765 6,685.50 .99 .76 Ann Arb	or tar-concrete
Twelfth 1910 6,765 6,685.50 .99 .76 Ann Arb	
15 Washington,	or tar-concrete
To washing con,	or the tomerete
	or tar-concrete
	or tar-concrete
17 State, Packard 12,002 12,002.01 1.00 1	or tar-concrete
	or tar-concrete
	or tar-concrete
18 S. Main and Packard 1911 20,826 23,172.05 1.11 .78 Ann Arb	or tar-concrete
	or tar-concrete
19 N. Main, Cather-	
ine st. north 1911 10,117 11,110.86 1.10 .82 Ann Arb	or tar-concrete
	or tar-concrete
25 State, Monroe	
to Packard 1911 3,158 3,181.57 1.01 .78 Ann Arb	or tar-concrete
	or tar-concrete
	or tar-concrete
28 W. Liberty, Ash-	
ley to city limits 1913 15,612 20,836.90 1.34 .98 Ann Arb	or tar-concrete
29 W. Huron st.,	
Ashley to Forks 1913 14,131 19,257.61 1.36 1.01 Ann Arb	or tar-concrete
30 Church, Washte-	or the concrete
naw to Prospect 1914 11,832 14,802.93 1.25 .98 Ann Arb	or tar-concrete
31 Hill st., State st.	or tar officiete
32 Ann st., Main st. 1915 2,085 2,740.80 1.33 1.02 Reinforce	ed concrete
	a concrete
33 Jefferson st., 5th	
	concrete
34 Division st., De-	
	e concrete
35 Geddes ave., Ox-	
	ed concrete
36 Catherine st. and	
Miller av. 1916 9596.0 22,629.31 2.36 1.95 Brick on	
37 Alley, Blk. 2 S.,	concrete base
R. 3 E. 1918 470.0 839.29 1.78 1.59 Concrete	
Totals	

NOTE—The pavement between the rails of the street car track on Washtenaw ave. and between the rails and for a distance of 18 inches out on either side of the track on Packard and Main streets is of brick on concrete and is not included in the above statement.

the above statement.

NOTE—Tht pavement between the rails of the street car track and for a distance of 18 inches out on either side of the track on W. Huron st. is of brick on concrete and is not included in the above statement.

Office of Street Commissioner, Ann Arbor,	teams and truck \$132.88	
Mich., Jan. 13, 1919.	calcium chloride: labor,	
Hon. Board of Public Works, Jos. L. Ar-	Car calcium chloride (52,-	
get, President: Gentlemen-I herewith	500 lbs.)\$525,41	
present the annual report of the Street	Freight 52.09	
Department for the year ending Decem-	Unloading 3.63	
ber, 1918; including care of streets and	Repairs spreader 4.85 585.98 718.86	ĺ
sidewalks, building and repairs of side-	Number of streets or sections treated, 6.	
walk extensions, crosswalks, inlets, etc.,	(Ordered by resolution of Council ex-	
and gravel, cement and other materials	cept two sections where treatment took	
used:	place of second oiling not done in 1917.	
STREET WORK—	Total paid to city treasurer: Wash-	
Cleaning paved streets, la-	tenaw avenue, 1st section, \$14.36;	
bor, teams and driver	Washtenaw avenue, 2nd section, \$63.20;	
motor sweeper\$3,552.18	total, \$77.56.)	
City team 1,204.00	Grading streets with scraper and	
	street drag, labor, teams and	
\$4,756.18	tractor	
Gasoline for motor sweep-	Grading, graveling and patching	
er\$199.87	dirt streets\$5,471.08	
Freight on same 16.88 216.75	1740 loads gravel 578.81 6,049.89	
Gasoline (locally) 156.28	860 loads gravel @ 25c, \$215.00	
Water, 95,449 gals. at 10c	258 loads gravel @ 30c. 77.40	
per M. gals 9.55	538 loads gravel @ 35c. 188.30	
Lubricating oil (motor	141 loads cinders @ 10c 14.10	
sweeper)	2.6 tons broken stone	
Repairs motor sweep-	and cartage 21.01	
er\$161.05	84 loads gravel includ-	
Repairs, motor sweep-	ing hauling @ $75c$ 63.00	
er, labor\$66.28		
Supplies, motor sweep-	Total	
er	Tarring Concrete Pavements-	
Material for brooms (m.	Repairs holes with Tarvia	
sweeper)\$108.30	and joints with tar\$ 384.48	
Freight \$ 14.98	Tarring surface, sweep-	
Labor making brooms	ing, sanding and haul-	
$\dots $ \$206.56 \$329.84	ing sand 1,103.97	
Repairs standpipes 83.30	25,719 gals. Tarvia 3,414.97	
Hand brooms\$38.70	350 gals. Tarvia (K. P.	
Freight \$1.16 39.86	and X. C.) 62.50	
Repairs horse sweeper 2.91 \$5,862.66	Freight	
Average cleaned by motor sweeper,	Current at tar tank pump 14.25	
103,737 sq. yds. per day.	Coke, heating boiler 13.88	
Total for season, 17,842,764 square yards.	Work on tar tank and	
Cost of cleaning per 1,000 sq. yds., 0.3285.	boiler 9.43	
Cleaning leaves from pay-	307 loads sand (screened) 238.55	
ed streets \$ 407.06	50 loads sand	
Taking care of snow-	2372 gals. tar, locally 118.60 5,591.17	
leaning snow from cross-	Grading with scarifier,	
walks and gutters\$825.46	raking stones, dragging	
Plowing snow from side-	and wetting roadway\$615.07	
walks 214.56	Repairs scarifier, labor 17.20	
Opening streets to ceme-	Repairs scarifier, \$18.05;	
teries 3.54	express, \$1.55 19.60	
Hauling snow from streets 635.92	Maintenance scarifier,	
Plowing snow from gutters 168.50	sharpening teeth 18.00	
Hauling and repairs snow plows 17.30 \$1,835.68.	Kerosine oil fuel and	
plows	gasoline	
ments, labor\$466.83	Lubricating oil 12.43 741.68	
99 5 sacks cement, 24.88	Cleaning gutters on dirt streets. 2,838.59	
bbls., @ \$2.251 56.00	Cleaning leaves from gutters, dirt	
26 loads gravel @ 35c 9.10	streets	
11.5 loads sand @ 40c 4.60	Mowing weeds from streets and	
1075 brick @ \$22.78 per M. 44.49	lawn extensions\$419.63 Use of mower	
1 bbl. Tarvia K. P., 50 gal. 8.50		
2 bbls. tar (S. State), 104	Grading, etc., Streets—	
gals 5.20	Grading and graveling N. Main	
1030 old asphalt block @	st., from A. A. R. R. to city	
\$5.00 per M 5.15 \$599.87	limits, labor and teams, \$1,272.31 1005 loads gravel @ 25c 251.25 1.523 56	
(Of above amount work done for water		
dept., public service corporations, etc.,		
amounted to \$492.83. Bills for which	Sprinkling intersections, State st. district (1917 bill in 1918) 78.52	
have been put in city clerk's office for	Putting up street signs,	
collection)	labor\$34.60	
Treating dirt streets with	Freight 2.62	
	A 23-2-10 - 11-11-11-11-11-11-11-11-11-11-11-11-1	

91	Codern Commontation Commontation Commission
Boards and painting 42.50 79.72	Miller av., between Fountain
	and Gott st 106.31 172.83
Total Street work\$29,279.29	
CULVERTS-	Total Sidewalk work\$8,183.76
Culvert over Allen's creek,	SIDEWALK EXTENSIONS,
across Hill st., east side	CROSSWALKS, ETC.—
Division st., labor\$285.01	Building sidewalk extensions,
241 sacks cement, 60.25 bbls.	crosswalks, cement culverts at
$(2.251 \dots 135.62)$	street intersections, etc., labor \$1,363.25
42 loads gravel @ 35c 14.70	45 loads gravel @ 40c 18.00
Railing	191 loads gravel @ 35c 66.85
Repairs Culverts— 5th ave., between Hill and	1026.5 sacks cement, 256.63
Madison, Chapin st\$14.43	bbls. @ \$2.251 577.67
Miller avenue 6.16	12 loads sand @ 50c 6.00
Jefferson st. and A. A. R. R 19.70	15 loads sand @ 40c 6.00
5 sacks cement, 1.25 bbl, @	108 loads filler at 15c 16.20
\$2.251 2.81	315 old asphalt block and
1 load gravel	brick @ \$0.00 M 1.58
Repairs culverts (contract)—	11,749 brick @ \$22.78 M 267.64
T. Hession, wing wall, S. 7th	Lumber
st., 3.o cu. yds. @ \$15\$54.00	Irons for cement curverts 176.10 \$2,567.14
T. Hession, wing Broadway,	Sidewalk extensions laid by contract—
2.25 eu yds. @ \$15 33.75	By C. M. Thompson & Son: 20
T. Hession, wing walls, north	pieces, 309.36 lin. ft., 1337.4 sq. ft. 162.11
and south sides, N. Main, 4	By Thos. Hession: 14 pieces, 191.4
cu. yds. @ \$15 60.00 147.75	liu. ft., 945.92 sq. ft
Cleaning culverts and Allen's creek 57.08	By L. F. Staebler: 2 pieces, Benjamin and Sybil, 1 piece, 4th ave.
(Potol Culment words 8709.71	and William, total 28 lin. ft.,
Total Culvert work \$703.71 SIDEWALKS—	140 sq. ft
Grading for sidewalks\$1,860.09	By Weinberg & Kurtz: 2 pieces,
Repairs sidewalks, by city\$1.00	John and 5th ave., 15 lin. ft.,
Repairs sidewalks, by city,	77.89 sq ft 11.53
State st. (paid by property). 4.65 5.65	By J. Koch Co., Incorp.: 2 pieces,
New sidewalk, 118 East Huron st.	4th ave. and Catherine, 29 lin.
(paid by property owner), 15.8	ft., 165.45 sq. ft
lin. ft., 225.15 sq. ft.: labor, \$18.34;	Curbing Set-
cement, 4.5 bbi., \$10.13; gravel,	By C. M. Thompson & Son: N. E.
3 loads, \$1.05	corner Wayne and Washtenaw,
Cleaning dirt sidewalks under A. A.	22.95 lin. ft
R. R. overhead crossings 1.60	By Thos. Hession: S. E. corner
Sidewalks built for city under con-	Baldwin and Washtenaw,
tract—	12.95 lin. ft\$6.18
For property owners (by C. M.	Taking out old curb 2.80 8.98 By E. R. Schaffer, Fountain and
Thompson & Son): 86 pieces,	Miller ave., 20 lin. ft 8.00
7141.33 lin. ft., 37131.36395 sq. ft. 4,398.31	By M. G. Richmond, curb and gut-
For city (by C. M. Thompson & Son): 7 pieces, 306.15 lin. ft.,	ter, 514 East William st 6.00
2884.515 sq. ft	By city, at water trough, 5th ward,
(Fire engine house, city hall,	labor
front White st., public alley east	1.25 bbl. cement at \$2.251 2.81 7.10
side Chapin, Mill road, east side	Repairs curb (charged to contrac-
Jones, Canal st., Swift st.)	tor) 6.45
Sidewalks built by city under con-	Cleaning crosswalks 58.65
tract—	Unloading cars cement 29.05
For property owners (by Thomas	Unloading ear brick 20.78
Hession), 30 pieces, 1539.63 lin.	Repairs Bridges—
ft., 7298.685 sq. ft	Planking No. 3 bridge 42.60
For city (by Thomas Hession), 5	Watchman new Broadway
pieces, 820.55 lin. ft., 4248.6 sq. ft. 532.70	
(N. State, Old Ladies' Home, front	Night watchman Broadway bridge 5.50 63.00
of Park property, Chapin st.,	Repairs railing near Broadway
public alley, Sybil st., park prop-	bridge 8.65
erty, Washtenaw ave., Oak st., west side Glen avenue.)	
Cutting around tree, Berkshire road	Total, extension, etc., work\$3,174.19
and Washtenaw ave., \$5.25; cut-	INLETS, STORM WATER
ting out root, 510 East William	SEWERS. ETC.—
st., \$4.00 (Thos. Hession) 9.25	Repairs and cleaning inlets, gutter
Under resolution of Council, city	boxes, etc
paid one-half cost of sidewalks,	Tile 103.50
as follows—	Repairs fince and cleaning ditch,
S. University ave., at Thayer	South Division st 4.40
(Oakland) \$ 10.35	Laying Storm Sewers—
Washtenaw ave., east of	Granger west of Packard\$81.72 Tile448.87
Church 56.17	1 110

	. 700
66 tile from city yard 36.30 566.89	440 gals, gasoline from city sup-
North Main at A. A. R. R.	ply, at \$0.237 104.28
crossing\$ 60.76	Total, supplies, etc.,\$7,687.75
Tile	Of above: Street machin-
1 bbl. cement	ery\$5,886.50 Supplies 1,801.25 \$7,687.75
summit, Main to A. A. R.	RECAPITULATION.
R\$132.14	Street work
Tile 13.50	Culverts
1 bbl. cement	Sidewalks 8,183.76
Hauling tile 11.65	Sidewalk extensions, etc 3,174.19
Inlets and grates 24.25	Paving 839.30
Secretary of the code	Inlets, storm sewers etc 1,212.09
Total, inlets, etc., work\$1,212.09	General work and repairs 295.06
PAVING—	Street machinery\$5,886.50
Paving alley, B. 2 S., R. 3 E, (Pav-	Supplies, etc 1,801.25 7,687.75
ing Dist. No. 37), labor\$412.68	Total #51 975 15
107 bbl. cement 248.99	Total
76 loads gravel 26.60	Sidewalk extensions built (by city) 88
Tar 4.50	Sidewalk extensions built (by contract) 34
Supplies and materials 92.27 Superintendence, tools and en-	Culverts repaired 7
Superintendence, tools and engineering	New culverts 1
gineering 91.29 coo.oo	Storm water sewers laid 2
Total paving work\$839.30	Storm water sewers relaid 1
GENERAL WORK AND REPAIRS—	Crosswalks repaired and relaid 30
Miscellaneous work and repairs\$ 57.23	Sidewalk extensions repaired 8
Taking ashes from city hall 13.74	Gutter boxes built
Building cement platform for scari-	Storm water culverts at street inter-
fier at city yard, labor\$13.60	Sections
34 sacks cement, 8.5 bbls.	Tile drain at intersection
at \$2.251 19.14	Curbing set (by city)
6 loads gravel at 35c 2.10 34.84	Curbing set (by contractors) 4
Taking cinders from fire engine	Curbing repaired (by city) 1
house 4.88	Sidewalks repaired (by city) 3
Hauling tractor from ditch, Jack-	Sidewalks built (by city) 1
son ave. (charged to Water Department) 1.56	(15.8 lin. ft.; 225.15 sq. ft.)
Repairs tools and machinery, laying	Cement sidewalks built by city under
up scarifier, oiler, etc 23.90	contract—
Repairs red lanterns 5.00	For property owners
Hauling coal to city hall 2.00	(8,680.96 lin. ft.; 44,430.04895 sq. ft.) For city
Taking out trees in streets 6.8a	For city
Repairs cornice, 3d ward polls, city	Grand total, 9823.76 lin. ft., or 1.7468
labor \$ 2.23	miles. 51788.31395 square feet.
Repairs cornice, 3d ward polls, contractor's bill	Notices Served—
tractor's bill	To repair sidewalks226
ing cellars, etc 93.41	To observe street regulations 28
Painting and repairs stand pipes	To cut weeds
and water troughs, labor\$9.58	To clean snow or ice from sidewalks 39
Paint 4.84 14.42	Total - 203
Repairs drinking fountain 3.70	Total
m + 1	Graveling and patching streets in the
Total, general work\$295.06	several wards1740
SUPPLIES, REPAIRS, ETC.—	Graveling North Main street1005
General bills	Culverts
Machinery purchased by Board of	Extension and crosswalk work.
Public Works, including pump, scarifier, drag, Foote mix-	gravel
er,\$5,855.60	Extension and crosswalk work,
Freight 30.90 5.886.50	filler
Maintenance city team 674.36	Paving renairs 26 Paving alley (Dist. No. 37) 76
Hay	Ct. I latform, 6; new sidewalk (city), 3 9
oats 322.94	1 int. orm, o, new sidewalk (vity), o
Harness and repairs 34.45	Total loads3243
Veterinary 4.50	CEMENT ACCOUNT— Bbls. Bbls.
Straw, etc. 24.20	On hand Jan. 1, 1918
Horseshoeing 64.35	Bought in 1918: By car577.
Unloading hay and oats 2.45 Maintenance street department	Locally 3,25 580.25
run-about	Total
Repairs, tires, etc. \$256.84	Total
Storage 14.00	Fxtension and crosswalk work 1026 5
Gasoline bought 23.22	Paving repairs 99.5
	and the at parties and a comment of the comment of

COMMON COCNCID.	**PEDICART 5, 1819.	241
City engineer's department 28.	1 tank on wheels	45.00
Inlets and storm sewers 8.	2 patent street drags	45.00 35.00
Culverts, 241—5 246.	1 wood street drag	10.00
Sidewalk, 18; ct. platform, 34;	4 street brooms filled	88.00
w. trough, 5 57.	1 bdl. hickory splints	22.00
Paving alley 428.	3 two-wheeled carts	60,00
Supplied bridge contractor, etc. 103.	1 tool box on wheels	30,00
Island bridge (Park dept.) 340.	4 slip scrapers	20.00
* • • • • • • • • • • • • • • • • • • •	One 5-ft. Milwaukee bach mixer	50,00
Total	1 lot iron pipe	25,00
	1 tar kettle	10.00
On hand Jan. 1, 1919None	1 two-wheeled scraper	20.00
Bills against public service corporations,	1 diaghram pump	10.00
water department, sewer contractors and	One 50-gal, oil tank	10.00
others (collected or in course of collec-	1 sand wagon	15.00
tion through city clerk's office) during	1 broom filling machine	5.00
1918—	6 wheelbarrows	30.00
Repairing pavements (under reso-	1 log chain	2.00
lution of the Council)\$ 492.83	3 hammers	3.00
Cutting weeds	I pair stable blankets	3 00
Material sold (under order of Board	1 stencil and alphabet	1,00
of Public Works) 114.70 Repairing surface dirt streets for	2 small oil cans	1.00
Water department, plumbers, etc. 43.08	3 galvanized pails	1.50
New sidewalk, No. 118 E. Huron st. 29.52	1 two-horse mower	5.00
Bills against sewer contractors for ,	70 ft. inch hose	10.00
filling ditches and restoring sur-	1 lot sewer jacks	4.00
face of streets (to be collected	1 rooter	5.00
through city engineer's office	1 stencil for concrete	5.00
when final installment due con-	3 barley forks	3.00
tractor from city) 96.67	1 lot fire hose	1.50
Paid by property owner, repairs	1 grindstone	10,00 1.00
sidewalks, S. State st 4.65	1 hoe	.50
Paid by Forest Hill cemetery, haul-	2 stone hammers	3.00
ing cobbie	3 snow shovels	3.00
Paid by Becks' estate (rent of	1 spade	1.00
steam roller, 1916)	2 old trowels	.25
Paid through city engineer's office	1 Steel frowel, creaser and edger	1.00
Broadway bridge contractor,	3 hatchets	1.50
Cement\$52.25	2 ladders	$\frac{2.50}{2.50}$
Grading roadway 38.70 90.25	2 sand screens	2.00
Paid through city engineer's office,	1 cross-cut saw	2.50
street work for sewer contractors 61.82	1 bolt cutter	1.00
Old iron sold by street com-	14 red lanterns	7.00
missioner	1 brace and bit	1.50
Old iron sold by street com-	3 levels	1.00
	14 grub hors	6.00
(D. 4.)	6 scythes and handles	5,00
Total	3 grub hoes	3.00
Bills paying work, etc., 1917, in city clerk's office (uncollected)\$ 25.28	10 picks	10.00
clerk's office (uncollected)\$ 25.28	1 tamper	1.00
Total	2 wood tampers, 1 iron tamper	100,00
Respectfully submitted: A. J. PAUL,	3 hand saws	3.00
Street Commissioner.	2 tool boxes	3.00
INVENTORY—STREET DEPT.—	2 mortar boxes	$\frac{4.00}{2.00}$
1 Kelly-Springfield scarifier\$ 4,500.00	3 scoop shovels	3.00
1 Foote bach mixer	6 street shovels	7,50
1 Elgin motor sweeper 3,500.00	1 cement shovel	.75
1 oiler 600.00	3 paving hammers	2.00
1 road scraper	7 crowbars	5,00
1 road scraper 100.00	3 axes	3.00
1 tar tank and boiler 1,200.00	1 street toilet	2.00
1 20th Century grader 100.00	2 Knowell street scrapers	6.00
1 Studebaker sprinkler 150.00	2 large hose nozzles	2.00
2 dump wagons 150.00	1 rake	1.00
1 platform scale	Chisels and plyers	2.50
2 horse-drawn sweepers 200.00	3 pair rubber boots	9.00
1 team of horses 150.00	1 wagon jack	5,00
3 tons hay 90.00	2 post hole diggers	1.00
100 bu. oats	2 pitch forks	1,00
1 double harness	1 gasoline engine pump	8 375.00
The state of the s	Total	**************************************
1 pair horse blankets	INVENTORY—BLDG. MATERIAL	10,413.00
2 patent snow plows	28 bbls. pitch	\$140 AA
1 steel snow plow	3500 No. 1 paving block @ \$22	78
The state of the s		•

per M	79.73
9 ft. 30" tile\$ 64.80	
One 24" elbow 36.00	
One 15" elbow 14.40	
4 ft. 15" tile 7.20	
15 10" elbows and T's 63.00	
One 18" elbow 20.00	
34 ft. 10 " tile 35.70	
18 ft. 12" tile 24.30	
300 ft. 8" tile 210.00	
18 12" Y's and T's 97.20	
60 ft. 8" tile 3-ft. long 42.00	
m + 1	
Total	045 44
Less 65%\$399.49	
1300 ft. 3" plank @ \$50.00 per M	65.00
960 ft. 4" plank @ \$35.00 per M	33.60
Total\$	533.44

Report of Acting Marshal for month of January, and annual report of Board of Public Works, comprising the annual reports of City Engineer and Street Commissioner, received and ordered to take usual course.

Dr. John A. Wessinger, Health Officer, made oral report of dumping grounds available, and informed Council that the ordinance prohibiting the keeping of pigs within the city would be enforced.

A communication was presented from J. S. Flanders, Sturg's, Mich., relative to proposed bill before the Legislature, which, if passed, would place on the tax rolls ail municipally owned property si uate outside the corporate limits.

Moved by Ald. Lutz, that the matter be referred to Mayor Wurster, Pres. Reichert, City Attorney DeVine and Ald. Sink with power to act.

Adopted by the following vote: Yeas, Ald. Sugden, Huss, Mayer, Henderson, Prochnow. Markey, Donnelly, Hauser, Spathelf, Freeman, Mac-Gregor, Lutz, Pres. Reichert, 13. Nays, none.

By Ald. Huss: Resolved, that the time for collecting taxes be and is hereby extended to February 8th, 1919.

Adopted by the following vote: Yeas, Ald. Sugden. Huss, Mayer, Henderson, Prochnow. Markey. Donnelly, Hauser, Spathelf, Freeman, MacGregor, Lutz, Pres. Reichert. 13. Nays, none.

Charter Amendments Proposed.

By Ald. Lutz: Resolved, that section 51 of the Charter of the City of Ann Arbor be and the same is hereby amended to read as follows:

Section 51. The City Clerk shall keep the corporate seal and all the

documents, official bonds, papers, files and records of the city, not by this act or by the ordinances of the city entrusted to some other officer; he shall be clerk of the Common Council, shall attend its meetings, record all its proceedings, ordinances and resolutions, and shall countersign and register all licenses granted and report the same with the amount thereof to the Common Council monthly; he shall, when required, make and certify, under seal of the city, copies of the papers and records filed and kept in his office, and such copies shall be evidence in all places of the matters therein contained to the same extent as the original would be. He shall possess and exercise the powers and dut'es of township clerk so far as the same are required to be performed within the city, and shall have authority to administer oaths and affirmations. The City Clerk may, subject to the approval of the Common Council, appoint a deputy, and such deputy may perform any and all the duties of such clerk.

Adopted by the following vote: Yeas, Ald. Sugden, Huss. Mayer, Henderson, Prochnow, Markey, Don-elly, Hauser, Spathelf, Freeman, Mac-Gregor, Lutz, Pres. Reichert, 13. Nays, none.

By Ald. Lutz: Resolved, that section 69 of the charter of the City of Ann Arbor be and the same is hereby amended to read as follows:

The officers and em-Section 69. ployes of said corporation shall be entitled to receive out of the city treasury such compensation as the Common Council shall allow. The Mayor, City Clerk, City Assessor, City Treasurer, City Attorney, Marshal and Health Officer may appoin', subject to the approval of the Common Council, such assistants under them as are required for the proper and prompt perfermance of the duties of the several The Treasurer shall keep an offices. exact account of all fees allowed by law, the collection of which is provided for in section 184 of this charter, and it shall be his du'v to collect the same, and when so collected, he shall credit the same to the contingent fund, and he shall likewise acount for all fees provided for collecting the taxes to be levied and collected in the said city and credit the same to the con-The justices ofthe tingent fund. peace and cons'ables shall be allowed the same fees as law allowed to corresponding township officers; members of the Common Council shall serve without pay, excepting for services on boards of review, election boards and boards of registration, for which services they shall receive payment of five dollars per day; supervisors and all other officers of said city shall be entitled to receive such compensation as the Common Council shall allow, not exceeding \$4.00 per day for every day actually employed in the performance of the duties of their respective offices.

Adopted by the following vote: Yeas, Ald. Sugden, Huss, Mayer, Henderson, Prochnow, Markey, Donrelly, Hauser, Spathelf, Freeman, Mac-Gregor, Lutz, Pres. Reichert, 13. Nays, none.

By Ald. Lutz: Resolved, that section 161 of the Charter of the City of Ann Arbor be and the same is hereby amended to read as follows:

Section 161. There shall be a board of health in said city which shall cons st of three members, one of whom shall be a competent physician; they shall be appointed by the Mayor, by and with the consent of the Common Council, for the full term of three years: but the members shall be subject to classification in such manner that one term shall expire each year; one of the members of said board, in addition to the powers and duties incumbent upon him as a member of said board, shall be city health officer and shall exercise such powers and dulies as shall be from time to time cenferred upon him by said board of health and the Common Council of said city. Said city health officer shall in all cases be a competent physician and the mayor shall designate which of the members of said board shall be city health officer, and such member or the board of health shall continue to discharge the duties of ci y health officer during the term for which he was appointed as a member of said board. Such city health officer shall be executive officer of the board of health, shall perform such duties of inspection as may be necessary for the information and guidance of toard and shall do the work of fumigating in all cases where it is necessary for it to be done within said city. The members of the said board of health shall receive such compensation as the Common Council may allow.

Adopted by the following vote: Yeas, Ald. Sugden, Huss. Mayer, Henderson, Prochnow, Markey, Don-

ship officers; members of the Common Relly, Hauser, Spathelf, Freeman, Mac-Council shall serve without pay, excepting for services on boards of re-Nays, none.

By Ald. Freeman: "Whereas, the Workmen's Compensation law Michigan provides that each city in the state is subject to the provisions of said Act; and that each incorporat-€d Public Board or Public Commission in the city is likewise subject to the provisions of the Act as a part of the city; and that it is the duty of the city to make a record of all accidents occurring to the employes of the city and of all the departments of the City Government; and to report all accidents to the Industrial Accident Board within ten days after they occur and thereafter in accordance with the rules of the Industrial Accident Board; and to pay employes of the city and of all the Public Boards, Commissions and Departments of the ci v who are injured in the course of their employment, workmen's compensation in accordance with said law, and

Whereas, the law imposes upon the Common Council of the city of Aun Arbor, the duty of seeing that the city and all of is Public Boards, Commissions and Departments comply with the requirements of the said Workmen's Compensation law, and

Whereas, in the judgment of the Common Council of the said city on Ann Arbor, it is necessary, in order that this work shall be systema ically done, that each and all of the Boards, Commissions and Departments of the city shall report all accidents and injuries occurring to its employes, to some central authority in the city, which central authority shall report all said accidents to the Industrial Accident Board in compliance with the laws and rules of the Board, and look after the making of agreements with the injured employes and the payment of workmen's compensation to them, therefore

Be It Resolved by the Common Council of the city of Ann Arbor, that the City Clerk of the said city shall be and he is hereby constituted the agent of the city of Ann Arbor, and of all the Boards. Commissions and Departments of said city, for the purpose of investigating the injuries and accidents that may occur to all employes of the said city and of the various Boards, Commissions and Departments thereof; and for the purpose of repor ing all such accidents to the Industrial Accident Board in compliance with the law of the state and

the rules of the Board; and for the purpose of making proper agreements with all injured employes; and for the purpose of looking after the payment of workmen's compensation to all employes entitled to the same, and

Be it Further Resolved, that the Foards, Commissions and Superintendents and persons in charge of each and all of the Departments of the city shall immediately report all accidents and injuries occurring to employes to the City Clerk on the same day upon which such accidents and injuries shall occur; and that the City Clerk upon such reports being made to him shall immediately investigate all the facts with reference to such accidents and make complete records of the same in a book to be procured by him for that purpose, and that he shall report all accidents to the Industrial Accident Board; shall look after the making of agreements with the injured employes; and the payment of compensation that may become due to them, and

Be It Further Resolved, that the said City Clerk shall from time to time make a report to the Common Council showing in detail the accidents that have occurred to employes of the city and of each and all of the various Boards. Commissions and Departments of the city; what action has been taken regarding each accident; and the amount of compensation that has become due and been paid to in-

jured employes, and

Be It Further Resolved, that in performing the services required by this resolution, the City Clerk shall be aided by the Boards, Superintendents and other persons in charge of the various departmen's of the city, as to all of the accidents and injuries occurring to employes of their respective departments."

Adopted by the following vote: Yeas, Ald. Sugden, Huss, Mayer, Henderson, Prochnow, Markey, Donrelly, Hauser, Spathelf, Freeman, Mac-Gregor, Lutz, Pres. Reichert, 13. Nays, none.

By Ald.Freeman: Resolved, that the sum of \$600.00 appropriated by this body under date of October 7th, 1918, for the purpose of maintaing a rest room in the basement of the Court House, be and the same is hereby reappropriated to be used for said purpose, at a rest room at the corner of William and Main sts., known as the Feiner house.

Adopted by the following vote: Yeas, Ald. Sugden, Huss, Mayer, Henderson, Prochnow, Markey, Donnelly, Hauser, Spathelf, Freeman, Mac-Gregor, Lutz, Pres. Reichert, 13. Nays, none.

Mr. E. T. Cope, district agent Detroit Edison Co., addressed Council relative to proposed lighting sysem, and announced that the company would submit a proposal at next meeting of Council.

Moved by Ald. Freeman, that the building on E. University ave., owned by the city and formerly used as fire department station and known as Engine House No. 2, be and the same is hereby designated as the polling place and registration place for the Sixth ward.

Adopted by the following vote: Yeas, Ald. Sugden, Huss, Mayer, Henderson, Prochnow, Markey, Donnelly, Hauser, Spathelf, Freeman, Mac-Gregor, Lutz, Pres. Reichert, 13. Nays, none.

On motion of Ald. Lutz Council adjourned.

ISAAC G. REYNOLDS, City Clerk.